

EVRAZ Oregon Steel Rivergate Facility

Riverbank Source Control Measure Implementation



Who Is EVRAZ?



Environmental Fun

Evraz in Portland is a proud sponsor of the Columbia Slough Watershed Council (CSWC) and over the years, has provided sponsorship of an annual Regatta – the largest one-day paddle in Oregon. The Regatta was designed to celebrate this local waterway and its recreational opportunities. Portland Energy and Environment Department employee, Debbie Deetz Silva and her toddler, Shu (pictured here) participated in the most recent Regatta. "Paddlers can travel east through a shaded wetland that is home to bald

eagles, deer, river otters, and fish," notes Silva. "Before and after paddling, participants can visit with local environmental and water-based organizations and enjoy hands-on nature activities." Silva encourages her colleagues to participate in the Regatta this summer and would be happy to provide more information to those who may be interested. "The Regatta is a celebration I look forward to each year. It's fun and amazing to share this experience with my family!"

Debbie Deetz Silva and her son enjoyed participating in the annual Regatta on the Columbia Slough.



WHO WE ARE

As part of Portland's working waterfront and manufacturing base, EVRAZ plays an important role in the region's economy. Its talented workforce safely produces durable steel for energy, military and infrastructure projects.

We have operated in Portland since 1928 and are geographically situated to cost-effectively serve the Western U.S. and Canada, as well as select international markets.

Fast Facts:

- About 600 employees
- The only plate mill in the western U.S. and adjacent Canadian provinces
- Products include steel plate, coil, large diameter pipe and hollow structural steel
- Developed high-strength armor plate that stops bullets traveling at over 2,000 m.p.h.



WHAT WE DO

EVRAZ Portland has the unique capability to produce chrome plate up to 130" wide and 57" thick, and coil up to 120" wide and 5/8" thick. Applications are varied and include armored vehicles, railroad cars, heavy equipment, pressure vessels and storage tanks, wheel and transmission towers, ships and barges. Our spiral mill converts steel coils made at our adjacent rolling mill into 48" large diameter pipe used for oil and gas transmission.



PORTLAND

BEING A GOOD NEIGHBOR

In addition to almost \$18 million in annual company and employee contributions to the state and local economy through direct taxes, EVRAZ also donates \$26.5 million into the local community through employee wages and benefits, and even more through the dollars we spend with local businesses.

EVRAZ is committed to environmental stewardship, and is involved in the cleanup of the Portland Harbor through the Lower Willamette Group and the Portland Harbor Project. In fact, EVRAZ took the initiative to invest more than \$3.5 million in a state-of-the-art storm water treatment system at the Portland facility to improve river health and water quality. The company purchases Clean Wind™ power from PGE as well, which has reduced our carbon emissions by more than 2.5 million pounds – that's the equivalent of eliminating almost 3 million miles of driving each year. Lighting and energy improvement programs have further reduced our energy usage by more than 1.5 million kWh per year, enough energy to power more than 2,000 homes.



Being a good neighbor is also about supporting the communities where our employees live and work. Since 2011, we have supported the First Growth Children and Family Charities benefiting the YWCA Clark County, Randall Children's Hospital, New Avenue for Youth, Metropolitan Family Services and Friends of the Children.

ABOUT EVRAZ NORTH AMERICA

EVRAZ North America (the "Company") is a wholly owned subsidiary of EVRAZ plc, one of the largest vertically integrated steel and mining businesses in the world. The Company is a leading North American producer of engineered steel products for rail, energy and industrial end markets. The Company has six production sites located in the USA (Portland, Oregon; Pueblo, Colorado) and Canada (Regina, Saskatchewan; Calgary, Camrose and Red Deer, Alberta).

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ENVIRONMENTAL Policy

EVRAZ North America believes that a commitment to sound environmental practices is integral to business success. We will actively consider the environment in our decisionmaking.

It is the Company's policy to:

1. Comply with, and seek to exceed applicable laws and regulations;
2. Promote efficient use of energy, water, and other resources, the prevention of pollution, and waste minimization;
3. Maintain its position as a major recycler;
4. Continually improve our environmental practices and performance;
5. Regularly set and review environmental objectives and targets, and provide the commitment and resources to achieve them;
6. Conduct periodic environmental reviews, and accordingly implement improvements;
7. Implement environmental management systems and ensure that they operate effectively, manage risk, and
8. Promote sound environmental practices through employee education and accountability, and engage with the community, government and other stakeholders.



Corral Wicks
President & CEO, EVRAZ North America
October 2014

integral
consulting inc.



EVRAZ Portland Steel Operations Today at Rivergate

□ Slab, Plate, Coil, and Pipe



Rivergate Operations

□ EVRAZ

- Rolling Mill
- Pipe Mill

□ Independent Contractors

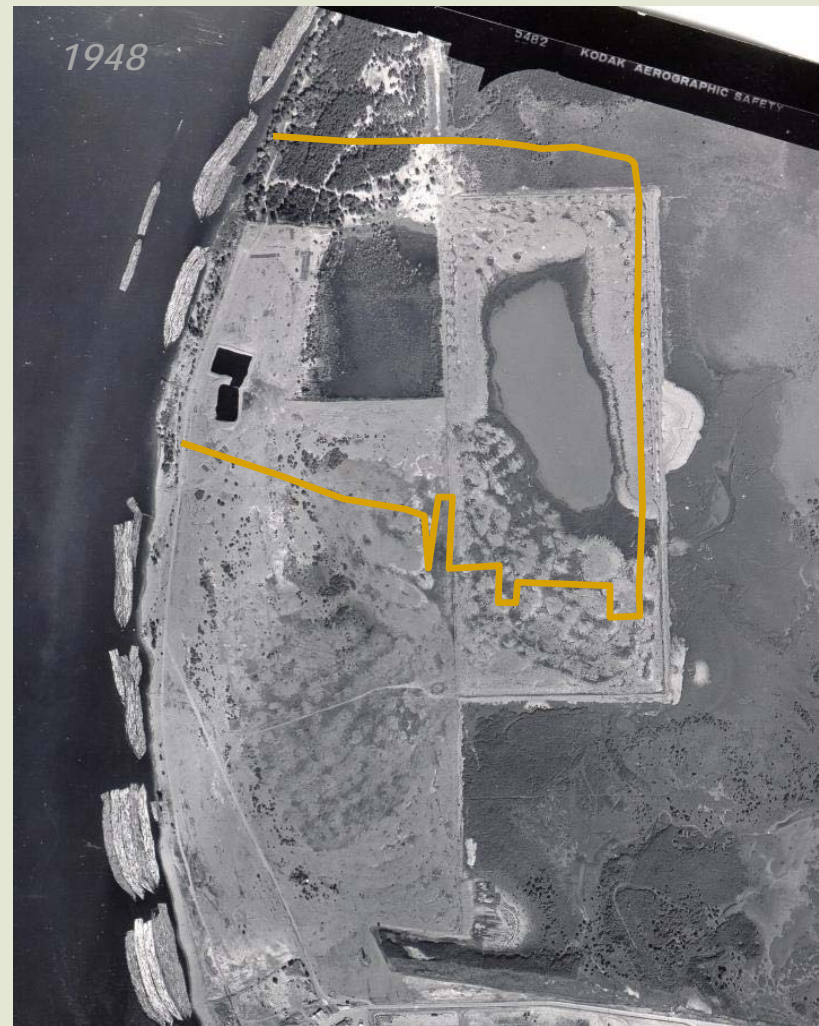
- Coating Mill
- Cut-to-Length Facility



Site History and Ownership

Port of Portland -
1942 to 1967

Gilmore Steel -1967
to 1987



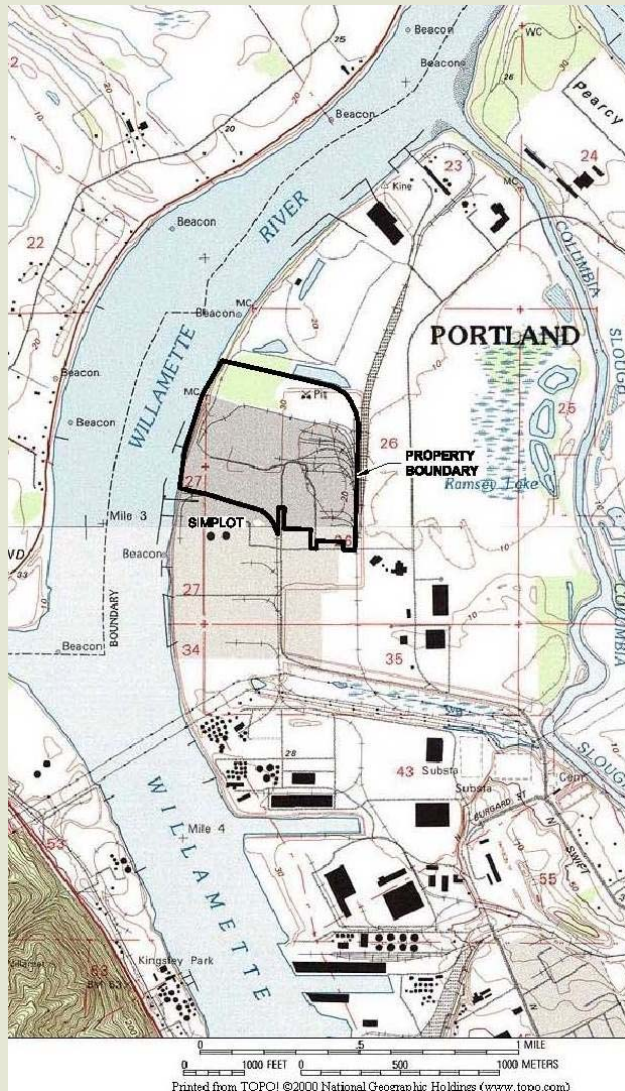
Site History and Ownership

Oregon Steel Mills - 1987 to 2007

Evraz Oregon Steel - 2007 to present



Evraz Oregon Steel



Site Details:

- Active Steel Mill
 - Scrap-based until 2003
 - Steel slab imported from other facilities
- 145 acres
- Willamette River Mile 2 – 2.5
- Oregon Steel Mills enters into a June 2000 Voluntary Cleanup Agreement with DEQ

Contaminants of Concern

□ PCBs

- Potential sources include: contaminated dredge fill, scrap shearing, historic oil sump, imported fill

□ Metals

- Slag is by-product of steel processing; used as fill
- Primary metal COPC: manganese (and arsenic)

□ PAH

- Former oil sump
- No further action



Upland Source Control

- Joint Source Control Strategy: “Identify, evaluate and control sources of contamination that may affect the Willamette River...”
- In 2006, Evraz completed Source Control Evaluations
- Three pathways evaluated:
 - Groundwater (assessment largely complete)
 - Stormwater (in progress)
 - Riverbank (in construction)

Stormwater Source Control - Drainage

- **Blue:** Northern Outfall (003)
 - 97 acres (91% of runoff)
 - End of pipe treatment
- **Yellow:** Rivergate Outfall (002)
 - 9 acres (9% of runoff)
 - Treatment with BMPs
- **Green:** Infiltration



Stormwater Source Control

- Low-level PCBs in many areas
- Active facility: limitations for BMPs
- Paving not practical
- End-of-Pipe treatment selected
- Over \$3.5 Million spent to date:
 - Most stormwater consolidated to one outfall
 - Clarification basin constructed
 - Turbine pumps installed to manage large storm
 - Smaller “workhorse” pumps installed to regulate flow



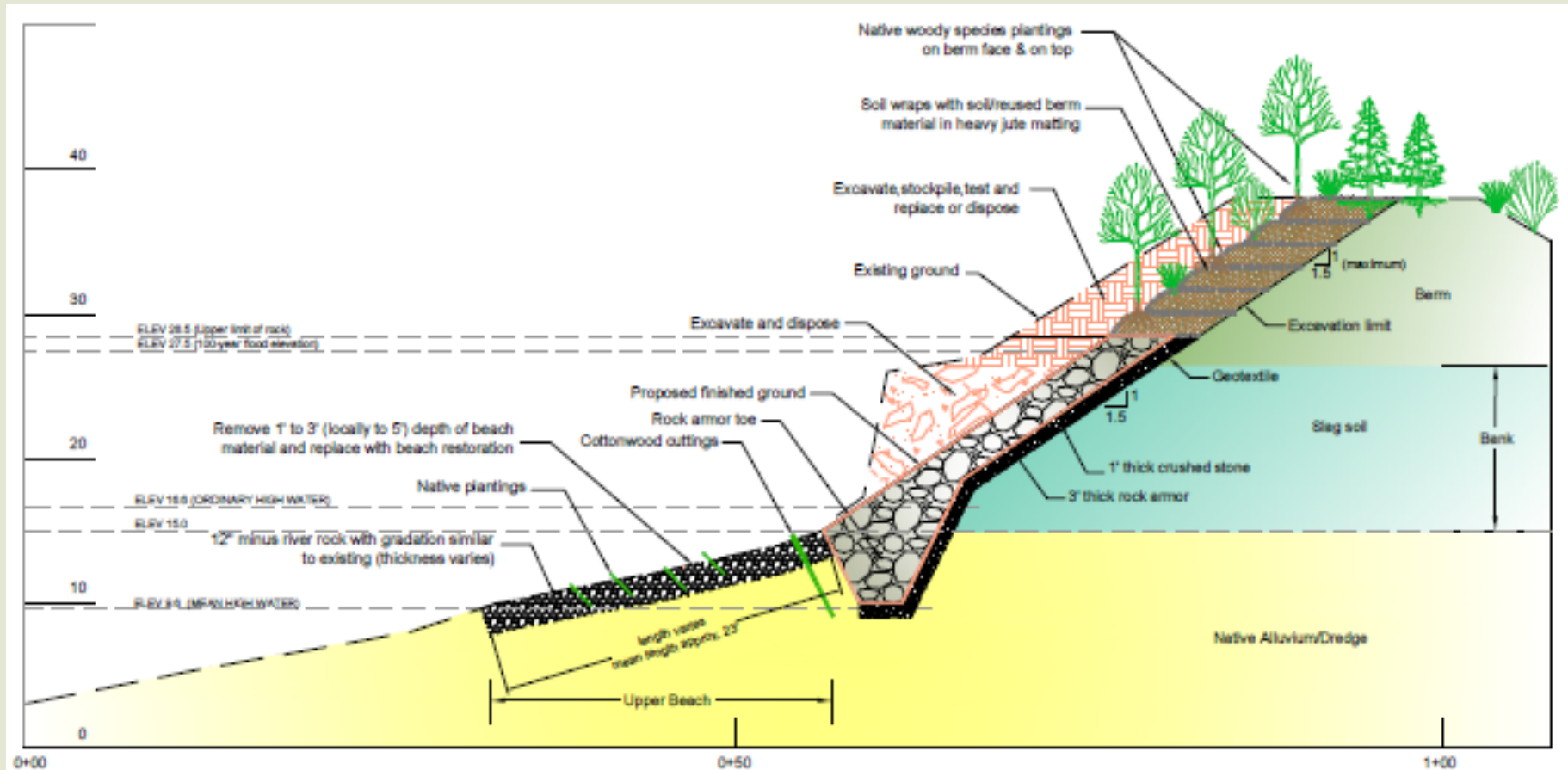
Stormwater Source Control

- Stormwater source control loading study in-process:
 - Rivergate Outfall (002) sampling complete
 - Northern Outfall (003) dry weather sampling complete
 - Northern Outfall (003) wet weather sampling in-process following installation of smaller “workhorse pumps”

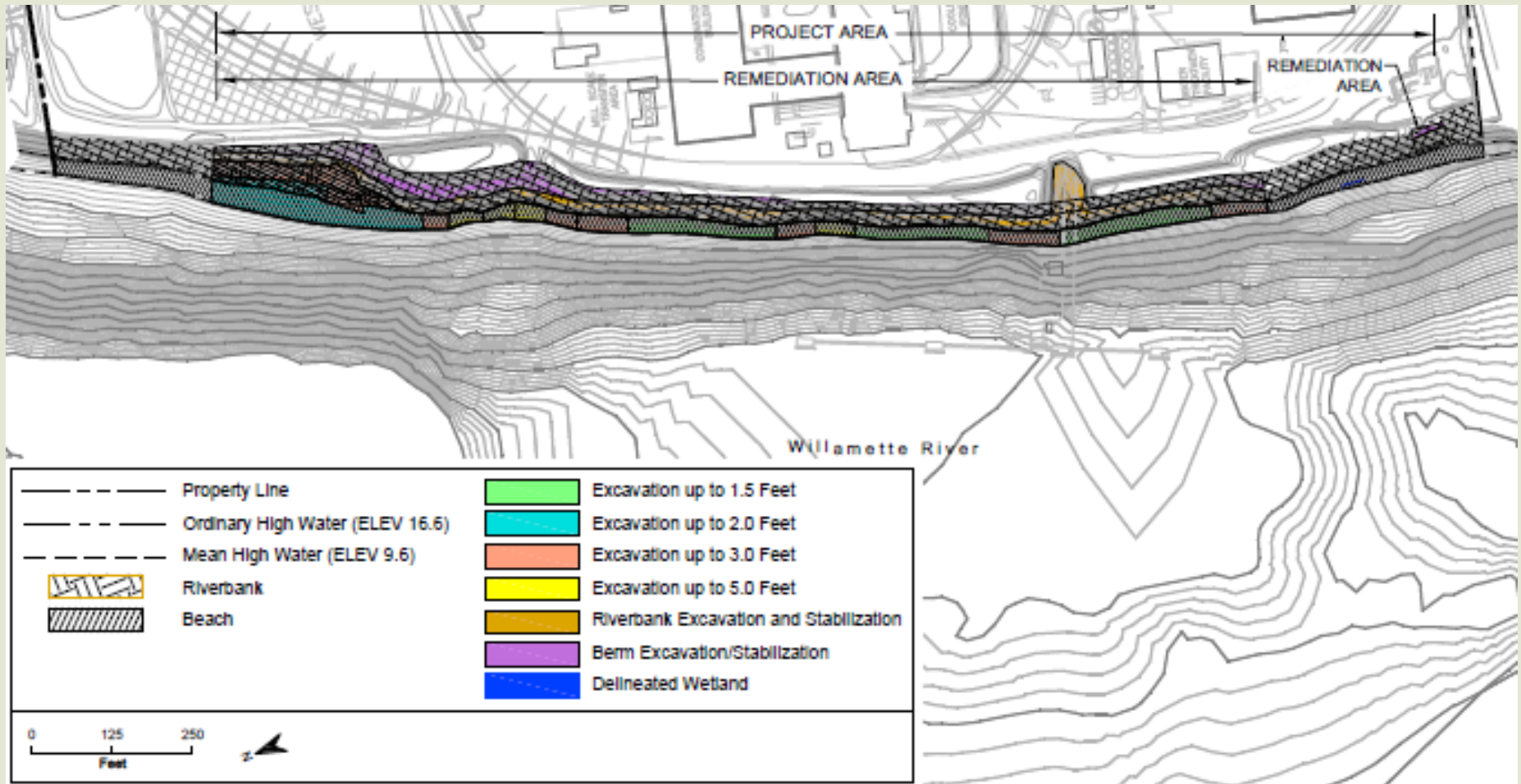
Riverbank Source Control

- ❑ Historical riverbank fill consists of slag/soil material containing PCBs and metals
- ❑ Potential for riverbank erosion during high flows
- ❑ 2006 SCE recommendation: stabilization capping with enhanced vegetation
- ❑ Footprint based on PCB and metals concentrations
- ❑ Beach removal included
- ❑ Habitat improvement through plantings

Riverbank Source Control Measure Design



Riverbank Project Area



Riverbank Source Control Project Timeline

- ❑ Joint Permit Application submitted to agencies in April 2014
- ❑ Design modifications during mid-2014 included additional habitat on north end (north alcove)
- ❑ Permits issued in December 2014
- ❑ Construction commenced at the beginning of 2015 in-water work window (July 1, 2015)
- ❑ Removal, capping, and planting nearly 1,700 linear feet of shoreline (upper beach and riverbank) is ongoing

Pre-construction: North/Central



Pre-construction: North of Dock



Pre-construction: South of Dock



Pre-construction: North Alcove



Construction: Project Area from Dock (Mid-August)



Construction: North of Dock (Mid-August)



Construction: North Alcove and Habitat Connection (Sept.)



Construction: South of Dock (Mid-September)



Construction: Armor and Beach Fill (Mid-September)



Project Schedule

- Construction below Ordinary High Water: complete early October 2015
- Berm reconstruction: complete late-October 2015
- Planting beach and berm: late-2015 through early-2016
- Long-term monitoring and maintenance:
 - Vegetation monitoring
 - Easement and Equitable Servitude